

CIC #: 99EPA EPA SUPERFUND PROGRAM

Billed Date: 02-Jan-2015

Customer Order Number: DW96942125

PASSAIC CPG OVERSIGHT 147757 BZ761

EPA 598

**VOUCHER FOR TRANSFERS  
BETWEEN APPROPRIATIONS AND/OR FUNDS (AR 37-1)**

Mission Assignment No:

D.O. Voucher No.BU. Voucher No.Bill No.Paid By Check No.Collection Vou. No.

27071035

Partial # 91 01-Dec-2014 Thru 02-Jan-2015

**Billed Office (Mail To):**

U S ENVIRONMENTAL PROTECTION AGENCY  
ACCOUNTING OPERATIONS OFFICE  
26 W MARTIN LUTHER KING DRIVE  
CINCINNATI OH 45268-7002

**Billing Office (Send Remittance To):**

USACE FINANCE CENTER G5  
KANSAS CITY DISTRICT G5  
5720 INTEGRITY DRIVE

MILLINGTON TN 38054-5005

**Billed Accounting Classification**

068 068 X 8145.0000 2007 00 0000 000000000000 00000

**Billing Accounting Classification**

\$203,628.62 096 NA X 3122.0000 G5 08 2416 868 022125 96231

\$203,628.62

Line Item	Moa	Description	Eaid No	Amount
1	CONTRACT - OUTSIDE GOVERNMENT	PVT SCTR CONTRACTUAL ARCHITECTURAL & ENGINEERING SERVICES (AE CONTRACTOR EARNINGS)		\$187,756.00
1	CONTRACT - OUTSIDE GOVERNMENT	TRANSP OF GOVT EMPLOYEES OR OTHERS, PERDIEM ALLOW IN TVL STATUS & OTH INCIDENTAL TRVL EXP		\$1,538.58
1	INHOUSE - LABOR	DEPARTMENTAL OVERHEAD COSTS		\$4,260.27
1	INHOUSE - LABOR	GENERAL AND ADMINISTRATIVE OVERHEAD COSTS		\$1,198.20
1	INHOUSE - LABOR	LABOR		\$8,875.57
<b>Subtotal:</b>				<b>\$203,628.62</b>

**CORPS CERTIFICATION**

"I CERTIFY THAT THE ABOVE ARTICLES WERE DELIVERED AND OR THE SERVICES PERFORMED AS STATED AND THAT THE PAYMENT REQUESTED IS CORRECT TO THE BEST OF MY KNOWLEDGE, AND SHOULD BE PAID AND CHARGED TO THE APPROPRIATION(S) OR FUNDS AS INDICATED."

13 June 2015 *Elizabeth A. Franklin*  
DATE SIGNATURE  
*Elizabeth A. Franklin*  
Project Manager

<b>Total Billed Amount:</b>	\$203,628.62
<b>Less Partial Amount Paid:</b>	\$0.00
<b>Payment Due Date: 01-Feb-2015</b>	<b>Pay This Amount: \$203,628.62</b>

**Funds Authorized:** \$12,100,000.00  
**Total Billed Amount:** \$9,593,032.93  
**Prev Billed Amount:** \$9,389,404.31  
**Current Billed Amount:** \$203,628.62  
**Total Flux Billed:** \$0.00  
**Prev Flux Billed:** \$0.00  
**Current Flux Billed:** \$0.00

**CERTIFICATE OF OFFICE BILLED**

I certify that the above articles were received and accepted or the services performed as stated and should be charged to the appropriation(s) and/or fund(s) as indicated above, or that the advance payment requested is approved and should be paid as indicated.

**Date:**

Authorized Administrative or Certifying Officer

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND ALKALI. (LOWER PASSAIC RIVER), NJ  
IA Number: DW9-942125

MONTHLY REPORT FOR DECEMBER 2014

	Revised Reimbursable (096X3122)	Direct Fund Cite	IA Totals (096X3122)
STATEMENT OF CHARGES FOR PERIOD:			
Total Funds Authorized:	\$12,100,000.00	\$0.00	\$12,100,000.00
Less Total Expenditures: (-)	\$9,593,032.93	\$0.00	\$9,593,032.93
Less Undelivered Orders: (-)	\$1,094,829.41	\$0.00	\$1,094,829.41
Less Commitments: (-)	\$13,873.64	\$0.00	\$13,873.64
Funds Available Balance:	\$1,398,264.02	\$0.00	\$1,398,264.02

BILLING ACTIVITY (096X3122):

Bill Number: 27071035

Funds Expended During Report Period:	\$203,628.62
Total Billed to Date:	\$9,593,032.93

DIRECT FUND CITE PAYMENTS:

Funds Expended During Report Period:	\$0.00
Total Expended to Date:	\$0.00

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PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND ALKALI (LOWER PASSAIC RIVER), NJ  
IA Number: DW# 5942125

Bill Number: 20071035  
Bill Invoice Date: 02-JAN-2015

Monthly Billing Amount(096X3122): \$203,628.62

Monthly Direct Fund Cite Contract Cost(068X8145): \$0.00

Budget Categories	Costs for Current Month	Prior Month's Summary	Project Costs to Date
a Personnel	\$5,715.66	\$177,839.90	\$183,555.56
b Fringe Benefits	\$3,159.91	\$95,583.07	\$98,742.98
c Travel	\$1,538.58	\$19,197.88	\$20,736.46
d Equipment	\$0.00	\$0.00	\$0.00
e Supplies	\$0.00	\$0.00	\$0.00
f Procurement	\$187,756.00	\$8,739,176.64	\$8,926,932.64
g Construction	\$0.00	\$0.00	\$0.00
h Other	\$0.00	\$186,304.69	\$186,304.69
i Total Direct Charges	\$198,170.15	\$9,218,102.18	\$9,416,272.33
j Total Indirect Charges	\$5,458.47	\$171,302.13	\$176,760.60
k TOTAL	\$203,628.62	\$9,389,404.31	\$9,593,032.93

LABOR BREAKOUT FOR MONTH:

Individual	Location	Function	Hours	Labor Amount
SHELLY M ALLEN	KANSAS CITY DISTRICT	PROGRAM ANALYST	2.00	\$206.51
ELIZABETH FRANKLIN	KANSAS CITY DISTRICT	HTRW PROJECT MANAGER	108.00	\$13,931.40
JILL K. FRALEY	KANSAS CITY DISTRICT	SUPERVISORY GEOLOGIST	1.00	\$129.62

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PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND ALKALI (LOWER PASSAIC RIVER), NJ

LABOR BREAKOUT FOR MONTH:

Individual -----	Location -----	Function -----	Hours -----	Labor Amount -----
ROBERT M PENDEB, JR	KANSAS CITY DISTRICT	HTRW PROJECT MANAGER	0.50	\$66.51
TOTAL LABOR:			111.50	\$14,334.04

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## Progress Report for EPA Region II

<b>Site:</b>	<b>Diamond Alkali, Lower Passaic River (Extended Study):</b> RI/FS Oversight, New Jersey		<b>Phase:</b>	RI/FS, OU4	
<b>Bill No.:</b>	<b>Partial #91</b> 27071035	<b>IAG No.:</b> NWK	<b>IAG: DW96942125/BZ761</b> IAG Award Date: 8/31/07	<b>IAG Expiration Date:</b> 3/31/18	<b>Other Corps</b> P2 #147757/FWI 96B4B2
<b>Reporting Period:</b>	<b>From:</b> December 1, 2014	<b>To:</b> January 2, 2015	<b>EPA RPM</b> Stephanie Vaughn		<b>USACE PM</b> Elizabeth Franklin
<b>Work Performed</b>					

<b>Work Performed</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> On 9 and 23 Dec 2014, participated in project progress conference calls with EPA/COE/CDM/LBG/HDR/BAT.</li> <li><input type="checkbox"/> Funding. No funding received during the reporting period.</li> <li><input type="checkbox"/> Team Calls. On 1, 8, 15 and 29 Dec 14, participated in weekly manager's call.</li> <li><input type="checkbox"/> CDM Task Order 0005; Mod 06 <ul style="list-style-type: none"> <li><input type="checkbox"/> On 2 Dec 14, conference call held to discuss changes needed in the revised proposal based on technical discussions.</li> <li><input type="checkbox"/> On 4 Dec 14, distributed modeling scope text to team that was prepared to better define HDR efforts. Received edits from the team and incorporated into the scope text.</li> <li><input type="checkbox"/> On 4 Dec 14, held conference call to discuss the modeling scope text and other outstanding items on the CDM cost proposal.</li> <li><input type="checkbox"/> On 8 Dec 14, distributed final scope of the modeling tasks.</li> <li><input type="checkbox"/> On 16 Dec 14, received revised CDM cost proposal for backcheck.</li> <li><input type="checkbox"/> On 17 Dec 14, provided comments to CDM based on review of revised cost proposal.</li> <li><input type="checkbox"/> Final proposal acceptance and award pending.</li> </ul> </li> <li><input type="checkbox"/> CDM Task Order 0005; WVNs <ul style="list-style-type: none"> <li><input type="checkbox"/> On 10 Dec 14, received draft WVN 11 for review.</li> <li><input type="checkbox"/> From 10 – 14 Dec 14, received, reviewed and provided comments on two revised versions of WVN 11.</li> <li><input type="checkbox"/> On 15 Dec 14, CDM submitted final WVN 11 for approval with all corrections incorporated.</li> <li><input type="checkbox"/> On 18 Dec 14, WVN 11 was approved and distributed to team.</li> <li><input type="checkbox"/> On 18 Dec 14, received draft WVN 12 for review.</li> <li><input type="checkbox"/> On 18 Dec 14, reviewed and approved WVN 12.</li> <li><input type="checkbox"/> On 19 Dec 14, WVN 12 was distributed to team.</li> <li><input type="checkbox"/> On 24 Dec 14, received draft WVN 13 for review.</li> <li><input type="checkbox"/> On 29 Dec 14, WVN 13 was approved and distributed to team.</li> </ul> </li> <li><input type="checkbox"/> Team Personnel/Meetings. <ul style="list-style-type: none"> <li><input type="checkbox"/> On 1 Dec 14, received updated organization charts including new CDM team members (RI and FS task managers and senior reviewers).</li> <li><input type="checkbox"/> On 2 Dec 14, provided recommendations to EPA on the organization chart.</li> <li><input type="checkbox"/> On 2 Dec 14, reviewed the draft team meeting agenda and provided comments to S. Kirchner.</li> <li><input type="checkbox"/> On 4 Dec 14, agenda and project documents were sent to full team for meeting preparation.</li> <li><input type="checkbox"/> On 11 Dec 14, traveled to and held meeting with CDM regarding recent efforts and provided feedback of their work.</li> <li><input type="checkbox"/> On 12 Dec 14, participated in EPA/CDM team meeting at EPA Region 2 offices. Purpose of meeting was to incorporate new team members with relevant project information and discuss upcoming work.</li> <li><input type="checkbox"/> On 17 Dec 14, requested new PM resumes from CDM. Request was fully coordinated internally and with EPA RPM.</li> <li><input type="checkbox"/> On 18 Dec 14, discussed the CDM response internally and anticipate new PM assigned to the project in January 2015. Continued to discuss the upcoming change with J. Czapor throughout the reporting period.</li> <li><input type="checkbox"/> On 30 Dec 14, provided S. Kirchner list of relevant reference material for new team members, a follow up action from 12 Dec 14 meeting.</li> </ul> </li> </ul>
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## Progress Report for EPA Region II

<i>Work Performed (cont)</i>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Cost Recovery.           <ul style="list-style-type: none"> <li><input type="checkbox"/> On 19 Nov 14, received request from EPA for cost recovery documentation.</li> <li><input type="checkbox"/> From 1-10 Dec 14, performed initial review of all relevant CDM progress reports and identified several items that would require revisions to ensure progress reports and cost tracking were consistent and easily reviewed by EPA.</li> <li><input type="checkbox"/> On 10 Dec 14, notified CDM of standard changes required for all progress reports starting with the May 2013 PR and continuing to the present.</li> <li><input type="checkbox"/> On 13 Dec 14, provided CDM with a list of actions prioritized for their immediate implementation.</li> <li><input type="checkbox"/> From 13 Dec 14 – 1 Jan 15, had numerous emails and conversations with CDM (K. Tan) as progress reports were reviewed, edited, backchecked and cross-checked for consistency to support cost recovery.</li> </ul> </li> <li><input type="checkbox"/> \</li> <li><input type="checkbox"/> Invoices. TO 0005.           <ul style="list-style-type: none"> <li><input type="checkbox"/> On 16 Dec 14, reviewed and approved CDM Invoice #29, totaling \$109,433, for period 24 Aug – 27 Sep 14.</li> <li><input type="checkbox"/> On 16 Dec 14, reviewed and approved CDM Invoice #30, totaling \$78,323, for period 28 Sep – 25 Oct 14.</li> </ul> </li> <li><input type="checkbox"/> On 10 Dec 14, participated in conference call/webinar with full team to discuss J. Kern's mapping efforts.</li> <li><input type="checkbox"/> On 11 Dec 14, participated in conference call to discuss the model status with EPA, HDR and CPG.</li> <li><input type="checkbox"/> During the reporting period, participated in discussions regarding the RM 10.9 pipeline survey efforts and the scope of oversight.</li> <li><input type="checkbox"/> Schedule.           <ul style="list-style-type: none"> <li><input type="checkbox"/> CDM current deliverable table is dated 10 Sep 14.</li> <li><input type="checkbox"/> CPG current schedule is dated 23 May 14.</li> <li><input type="checkbox"/> On 3 Dec 14, HDR provided updated list of actions with the CPG modeling submittals.</li> </ul> </li> <li><input type="checkbox"/> Preparation of Progress Report and Project Expenditure spreadsheet. .</li> </ul>
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## Progress Report for EPA Region II

### Key Contract Milestones Completed to Date

- ☐ **MPI Task Order 0020: Contract W912DQ-06-D-0006, Expiration Date – 19 Sep 2012**
  - ☐ 21 Sep 07 – Base Task Order, CPG RI/FS Oversight awarded for \$349,601.
  - ☐ 19 Jun 08 – Modification 01, CPG RI/FS Oversight was awarded for \$274,903.
- ☐ **MPI Task Order 0010: Contract W912DQ-08-D-0017, Expiration Date – 15 Jan 2014**
  - ☐ 16 Jan 09 – Base Task Order, CPG RI/FS Oversight was awarded for \$65,000.
  - ☐ 5 Mar 09 – Modification 0001 was awarded for \$69,772.
  - ☐ 24 Jun 09/1 Jul 09 - Modification 0002 was awarded for \$49,756 (verbal on 24 Jun/written on 1 Jul).
  - ☐ 3 Aug 09 – Modification 0003 was awarded for \$378,843.
  - ☐ 28 Aug 09: Contract Mod 4 was awarded, totaling \$279,277.
  - ☐ 1 Sep 09, Mod 5 (admin in nature) was signed.
  - ☐ 29 Dec 09, Mod 6 was awarded, totaling \$211,881.
  - ☐ 9 Jul 10, Mod 7 was awarded, totaling \$52,890.
  - ☐ 28 Dec 10, Mod 8 was awarded, totaling \$54,473.
- ☐ **CDM Task Order 0014: Contract W912DQ-08-D-0018, Expiration Date – 30 Jul 2014**
  - ☐ 3 Aug 09 – Base Task Order, CPG RI/FS Oversight was awarded for \$160,000 (verbal was given 31 Jul 09)
  - ☐ 22 Aug 09: Contract Mod 1/TO 0014 was issued, totaling \$175,902.
  - ☐ 25 Aug 09; Mod 2 (admin in nature) was signed.
  - ☐ 23 Dec 09; Mod 3 was awarded, totaling \$493,000.
  - ☐ 3 Mar 10; Mod 7 was awarded, totaling \$283,000. (Numbering out of order due to electronic system error.)
  - ☐ 14 May 10; Mod 8 was awarded, totaling \$140,000.
  - ☐ 9 Jun 10; Mod 9 was awarded, totaling \$375,000.
  - ☐ 21 Oct 10, Mod 10 was awarded, totaling \$362,923 (note \$63,000 of this funding is from IA 2023).
  - ☐ 27 Dec 10, Mod 11 was awarded, totaling \$74,426 (note funding split as follows: \$50,000 is Passaic FFS, IA 1975 and \$24,426 is Newark Bay, IA 2023).
  - ☐ 4 May 11, Mod 12 was awarded, totaling \$682,426 (note funding split as follows: \$645,000 is IA 2023 and \$37,426 is IA1975).
  - ☐ 19 Sep 11, Mod 13 was awarded, totaling \$150,000.
- ☐ **CDM Task Order 0005; Contract W912DQ-11-D-3004, Expiration Date – 15 Dec 2016**
  - ☐ 15 Dec 11 – Base Task Order, CPG RI-FS Oversight was awarded for \$770,000
  - ☐ 24 Jan 12 – Mod 1 (admin in nature) was signed.
  - ☐ 1 Jun 12 – Mod 2 was awarded, totaling \$1,059,312.
  - ☐ 7 Jan 13 – Mod 3 was awarded, totaling \$1,500,000.
  - ☐ 11 Jul 13 – Mod 4 was awarded, totaling \$1,250,000.
  - ☐ 14 Feb 14 – Mod 5 was awarded, totaling \$900,000.
- ☐ **LBG Task Order 0001; Contract W912DQ-11-D-3009, Expiration Date – 17 Nov 2016**
  - ☐ 26 Nov 13 – Mod 7 was awarded, IA funds totaling \$11,522 (for Kern Statistical).
  - ☐ 9 May 14 - Mod 9 was awarded, IA funding totaling \$64,533 (for Kern Statistical and RM 10.9 sample storage).

## Progress Report for EPA Region II

<b>Contractor Actions/ Accomplishments</b>	<p><b>CDM</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Management. CDM participated in progress calls as noted throughout this report, prepared the CDM progress report, invoices, numerous contracting documents and participated in team meetings and conference calls. Many cost transfers occurred to correct charging during this reporting period. Additional information may be found in the CDM Progress Report covering period November 30, 2014 to January 3, 2015 (progress report revised March 25, 2015).</li> <li><input type="checkbox"/> River Mile 10.9 Water Main Survey             <ul style="list-style-type: none"> <li>o Conducted pre-mobilization planning during the reporting period.</li> <li>o From 9-17 Dec 14, conducted field oversight and prepared field summary reports of the utility pipe probing.</li> </ul> </li> <li><input type="checkbox"/> River Mile 10.9 Removal Action Oversight.</li> <li><input type="checkbox"/> CDM Fieldwork Oversight.</li> <li><input type="checkbox"/> CDM Fieldwork Oversight Reporting.             <ul style="list-style-type: none"> <li>o Continued review of the CPG RTC on the Low Resolution Coring Supplemental Sampling Program Summary (2<sup>nd</sup> Supplemental Sampling).</li> <li>o Received attachments not previously submitted regarding the Low Resolution Coring Supplemental Sampling Program Summary (2<sup>nd</sup> Supplemental Sampling) and initiated review.</li> <li>o Continued review of the CPG RTC on the Small Volume CWCM Sampling Program Characterization Summary.</li> <li>o Continued review of the CPG RTC on the High Volume CWCM Sampling Program Characterization Summary.</li> </ul> </li> <li><input type="checkbox"/> CDM Data Manager/Website/Digital Library.             <ul style="list-style-type: none"> <li>o Provided data management support to EPA, team members and partner agencies.</li> </ul> </li> <li><input type="checkbox"/> CSO/SWO Sampling Oversight             <ul style="list-style-type: none"> <li>o On 19 Dec 14, reviewed and provided comment regarding the listing of valid value errors received from Tierra on 25 Nov 14. Follow up call planned for January 2015.</li> <li>o Continued review of Tierra's Combined Sewer Overflow/Stormwater Outfall Investigation Phase I Evaluation/Recommendation Report (dated October 2014).</li> </ul> </li> <li><input type="checkbox"/> Modeling (HDR).             <ul style="list-style-type: none"> <li>o Performed computation of chemical fluxes in LPR using HV-CWCM data for comparison to CPG model results.</li> <li>o Reviewed CPG RTCs on the 2011 and 2012 Bathymetry Reports.</li> <li>o On 10 and 11 Dec 14, participated in conference call after preparation of contaminant model mapping uncertainty.</li> <li>o Performed risk comparison between CPG and EPA.</li> <li>o Reviewed CPG AOC and CFT model calibrations.</li> <li>o Participated in conference calls as noted in the CDM Progress Report.</li> </ul> </li> <li><input type="checkbox"/> CPG Risk Assessment.             <ul style="list-style-type: none"> <li>o On 12 Dec 14, attended team meeting and gave presentation of risk assessors' perspective of the project.</li> </ul> </li> <li><input type="checkbox"/> RI/FS Documents             <ul style="list-style-type: none"> <li>o On 12 Dec 14, attended team meeting and gave presentation of RI/FS perspective of the project.</li> <li>o On 23 Dec 14, received CPG RTC and revised Feasibility Study Work Plan, LPRSA RI/FS, Revision 4. Review will be underway next reporting period.</li> </ul> </li> <li><input type="checkbox"/> Data Evaluation.             <ul style="list-style-type: none"> <li>o On 10 Dec 14, prepared for and participated in webinar regarding mapping uncertainty for contaminant distribution.</li> </ul> </li> <li><input type="checkbox"/> 17 Mile Schedules.             <ul style="list-style-type: none"> <li>o CDM current deliverable table is dated 10 Sep 14.</li> <li>o CPG current schedule is dated 23 May 14.</li> <li>o On 3 Dec 14, HDR provided updated list of actions with the CPG modeling submittals.</li> </ul> </li> </ul>
<b>Meetings</b>	<ul style="list-style-type: none"> <li>• Continuation of internal team calls and additional coordination meetings/conference calls with CPG.</li> </ul>
<b>Key Milestones Forthcoming</b>	<ul style="list-style-type: none"> <li>• As noted in the CPG schedules and/or verbal updates.</li> </ul>
<b>Issues</b>	
<b>Technical:</b>	<ul style="list-style-type: none"> <li>• Issues are worked in an ongoing basis as discussions held between the EPA and CPG.</li> </ul>
<b>Schedule</b>	<ul style="list-style-type: none"> <li>• EPA discusses schedule items with the CPG as needed.</li> </ul>



## Progress Report for EPA Region II

Funding:

- None at this time.

IAG Summary: Technical Assistance Amendment Funding						
USACE	Direct Fund Cite	Amend #	Date	USACE	Direct Fund Cite	Total IAG
410,000	0	Initial	9/6/07	-	-	\$ 410,000
290,000	0	1	6/3/08	-	-	\$700,000
75,000	0	2	12/31/08	-	-	\$775,000
85,000	0	3	2/19/09	-	-	\$860,000
50,000	0	4	6/23/09	-	-	\$910,000
576,665	0	5	7/27/09	-	-	\$1,486,665
500,000	0	6	8/7/09	-	-	\$1,986,665
789,000	0	7	12/1/09	-	-	\$2,775,665
300,000	0	8	2/24/10	-	-	\$3,075,665
140,000	0	9	4/27/10	-	-	\$3,225,665
510,000	0	0	5/24/10	-	-	\$3,735,665
400,000	0	0	9/14/10	-	-	\$4,135,665
745,000	0	0	4/8/11	-	-	\$4,880,665
150,000	0	0	8/31/11	-	-	\$5,030,665
850,000	0	0	11/12/11	-	-	\$5,880,665
1,124,335	0	0	5/14/12	-	-	\$7,005,000
1,650,000	0	0	12/6/12	-	-	\$8,655,000
1,345,000	0	0	5/31/13	-	-	\$10,000,000
900,000	0	0	2/7/14	-	-	\$10,900,000
1,200,000	0	0	11/21/14	-	-	\$12,100,000

Expenditures: USACE and Contract

## Progress Report for EPA Region II

## Summary of Funds Spent Per Activity &amp; Funding Remaining

Description	Funds for Activity	Funds Disbursed this Month	Funds Disbursed to Date	Funds Remaining
<b>MPI: Contract W912DQ-06-D-0006; Task Order 0020; awarded 21 Sep 07</b>	\$349,601.00	\$0.00	\$349,601.00	\$0.00
MPI: Contract W912DQ-06-D-0006; Task Order 0020/Mod 1; awarded 19 Jun 08	\$274,903.00	\$0.00	\$267,213.93	\$7,689.07
<b>MPI: Contract W912DQ-08-D-0017; Task Order 0010; awarded 16 Jan 09</b>	\$65,000.00	\$0.00	\$65,000.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 1; awarded 5 Mar 09	\$69,772.00	\$0.00	\$69,772.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 2; awarded 24 Jun 09	\$49,756.00	\$0.00	\$49,756.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 3; awarded 3 Aug 09	\$378,843.00	\$0.00	\$378,843.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 4; awarded 28 Aug 09	\$279,277.00	\$0.00	\$279,277.00	\$0.00
MPI/LBG: Contract W912DQ-08-D-0017; Task Order 0010/Mod 6; awarded 29 Dec 09 <sup>Note 1</sup>	\$211,881.00	\$0.00	\$211,881.00	\$0.00
MPI/LBG: Contract W912DQ-08-D-0017; Task Order 0010/Mod 7; awarded 9 Jul 10	\$52,892.00	\$0.00	\$52,892.00	\$0.00
MPI/LBG: Contract W912DQ-08-D-0017; Task Order 0010/Mod 8; awarded 28 Dec 10	\$54,473.00	\$0.00	\$19,780.45	\$34,692.55
<b>CDM: Contract W912DQ-08-D-0018; Task Order 0014/Base Contract; awarded 6 Aug 09 (verbal 31 Jul 09)</b>	<b>\$160,000.00</b>	<b>\$0.00</b>	<b>\$160,000.00</b>	<b>\$0.00</b>
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 1; awarded 22 Aug 09	\$175,902.00	\$0.00	\$175,902.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 3; awarded 23 Dec 09 <sup>Note 2</sup>	\$493,000.00	\$0.00	\$493,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 7; 3 Mar 10 <sup>Note 3</sup>	\$283,000.00	\$0.00	\$283,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 8; awarded 14 May 10	\$140,000.00	\$0.00	\$140,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 9; awarded 9 Jun 10	\$375,000.00	\$0.00	\$375,000.00	\$0.00
CDM: Contract W912DQ-08-D-0017\8; Task Order 0014/Mod 10; awarded 21 Oct 10 <sup>Note 4</sup>	\$299,923.00	\$0.00	\$299,923.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 11; awarded 27 Dec 10 <sup>Note 5</sup>	See note 5	\$0.00	\$0.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 12; awarded 4 May 11 <sup>Note 6</sup>	\$645,000.00	\$0.00	\$645,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 13; awarded 19 Sep 11	\$150,000.00	\$0.00	\$137,307.00	\$12,693.00

## Progress Report for EPA Region II

Description	Funds for Activity	Funds Disbursed this Month	Funds Disbursed to Date	Funds Remaining
<b>CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Base TO; awarded 15 Dec 11</b>	<b>\$770,000.00</b>	<b>\$0.00</b>	<b>\$770,000.00</b>	<b>\$0.00</b>
CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Mod 2; awarded 1 Jun 12	\$1,059,312.00	\$0.00	\$1,059,312.00	\$0.00
CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Mod 3; 7 Jan 13	\$1,500,000.00	\$0.00	\$1,500,000.00	\$0.00
CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Mod 4; awarded 11 Jul 13	\$1,200,000.00	\$187,756.00	\$1,128,275.00	\$71,725.00
CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Mod 5; awarded 14 Feb 14	\$900,000.00	\$0.00	\$0.00	\$900,000.00
<b>LBG: Contract W912DQ-11-D-3009; Task Order 0001/ Mod 7; awarded 26 Nov 13</b>	<b>\$11,522.00</b>	<b>\$0.00</b>	<b>\$11,522.00</b>	<b>\$0.00</b>
<b>LBG: Contract W912DQ-11-D-3009; Task Order 0001/ Mod 9; awarded 8 May 14</b>	<b>\$64,533.00</b>	<b>\$0.00</b>	<b>\$4,675.26</b>	<b>\$59,857.74</b>
<b>Contract Funding Available</b>	<b>\$1,100,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,100,000.00</b>
<b>Subtotal - Summary of Contracts; awarded and avail. (total reflects blocks e + f + g + \$2,491 on Page 2 IAG)</b>	<b>\$11,113,590.00</b>	<b>\$187,756.00</b>	<b>\$8,926,932.64</b>	<b>\$2,186,657.36</b>
Kansas City Corps In-House Labor/Travel - 17 Mile	\$791,948.23	\$14,285.36	\$449,381.07	\$312,137.66
Kansas City Corps In-House Labor/Travel - RM 10.9		\$0.00	\$26,046.64	
Kansas City Corps In-House Labor/Travel - Tierra Pipeline Survey		\$1,587.26	\$2,050.72	
Kansas City Corps In-House Labor/Travel - CSO/SWO*		\$0.00	\$2,332.14	
Superfund M&S Fee - 17 Mile (no longer used)	\$99,674.34	\$0.00	\$94,991.69	\$0.00
Superfund M&S Fee - RM 10.9 (no longer used)		\$0.00	\$4,682.65	
MIPR/ERDC - Hayter/Gailani; CPG Modeling Support	\$58,287.43	\$0.00	\$58,287.43	\$0.00
MIPR/ERDC - Estes; Decon Technology Support	\$24,500.00	\$0.00	\$21,462.39	\$3,037.61
MIPR/ERDC - Hayter (replaces MIPR above/updated office symbols)	\$12,000.00	\$0.00	\$6,865.56	\$5,134.44
<b>Subtotal - Summary of Labor/M&amp;S Fee</b>	<b>\$986,410.00</b>	<b>\$15,872.62</b>	<b>\$666,100.29</b>	<b>\$320,309.71</b>
<b>Grand Total - Contract/Corps</b>	<b>\$12,100,000.00</b>	<b>\$203,628.62</b>	<b>\$9,593,032.93</b>	<b>\$2,506,967.07</b>

\* In September 2014 reporting period; the labor cost to date was incorporated into this tracking table. A total of \$2,300 to date has been incurred and future costs will be tracked in this table.

Notes on above table:

Note 1: MPI/LBG TO 0010 Mod 5 is admin, zero dollar mod

Note 2: CDM TO 0014 Mod 2 is admin, zero dollar mod.

Note 3: CDM TO 0014 Mods 4, 5, & 6 were skipped in system numbering

Note 4: CDM TO 0014/Mod 10 totals \$362,923; \$63,000 is Newark Bay funding for IT transition.

Note 5: CDM TO 0014/Mod 11 totals \$74,426; \$50,000 is Passaic FFS funding and \$24,426 is Newark Bay funding for IT transition.

Note 6: CDM TO 0014/Mod 12 totals \$682,426; \$37,426 is Passaic FFS funding for IT/transition.

Contract funding available includes a bit of technical assistance labor funding; shift approved by EPA.

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**Progress Report for EPA Region II**

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**IAG Scope of Work Summary (block 13 of IAG)**

This amendment obligates \$XX (see amounts above for base and amendments) to the U.S. Army Corps of Engineers - Kansas City District to provide/continue oversight of the CPG's performance of Remedial Investigation and Feasibility Study at the Diamond Alkali OU4 Superfund Site (EPA ID: NJD980528996)

**Project Delivery Team**

<i>Name</i>	<i>Contact Information</i>	<i>Responsibility</i>
Beth Franklin	(816) 389-3581 Cell: (816) 695-5797	Project Manager
Josh Hill	(816) 389-3827	Contract Specialist
Shelley Thomas	(816) 389-3842	Contracting Officer
Irvin Gray	(816) 389-3146	Attorney
Julia Kisser	(816) 389-3874	COR

Prepared by: Elizabeth Franklin  
Project Manager  
13 June 2015

## PROGRESS REPORT

Site Name: Lower Passaic River Restoration Project and & Superfund Site  
Project: Task Order 6424.005 CPG Oversight  
Prepared by: Frank Tsang  
Representing: CDM Federal Programs Corporation (CDM Smith)  
Date: October 14, 2014 (revised March 16, 2015)  
Reporting Period: August 24, 2014 to September 27, 2014

The following structures reflect the WBS from TO 6424.005.

1. **Progress Made this Reporting Period** – CDM Smith performed the following activities during this period:

### **WAD 1, Work Order (WO) 1 – Project Management and Administration**

#### 1.1.1 Project Management

- CDM Smith performed project management including staffing, financial monitoring, invoicing, and participated in conference calls.
- CDM Smith developed scope for 2015.

#### 1.1.2 Project Support Documentation & Administration

- CDM Smith prepared and submitted the August 2014 monthly progress report.

#### 1.1.3 Subcontract Administration

- CDM Smith processed subcontractor invoices (HDR Engineering, Inc.).
- CDM Smith prepared a modification for the HDR subcontract.

#### 1.1.4 Project Communication

- On September 2 and 16, 2014, CDM Smith updated agendas and participated in biweekly conference calls.
- On September 2, 8, 15, and 22, 2014, CDM Smith prepared for and participated in weekly project status calls with EPA and USACE.
- CDM Smith and USACE met on September 10, 2014 for project planning through 2015.

### **WAD 1, WO 2 – Community Relations/Public Website**

#### 1.2.1 Public Meeting Support

- At the request of EPA/USACE, CDM Smith attended the CAG meeting on September 11, 2014 to provide technical support on activities related to the lower 17 mile RI/FS and support for activities specifically related to RM 10.9. (Note that CDM Smith split the time to attend the meeting between this WE and WE 2.7.1.)

### **WAD 1, WO 3 – Senior Technical Advisors**

#### 1.3.1 Senior Technical Advisor

- No activity.

- Funding for this WO is \$56,000 thru WVN 7/ATP 13 approved on March 27, 2014.

Item	TAC Member	TAC Member Subcontract Ceiling*	Authorized Funding	Payment this Period	Payment to date	Remarks
1	Ambrose	\$6,400	\$0	\$0	\$0	Subcontract in place. POP to expire 11/30/2016
2	Flood	\$6,000	\$0	\$0	\$0	Subcontract in place. POP to expire 11/30/2016
3	Di Toro	\$0	\$0	\$0	\$0	EPA/HDR placed subcontract on hold
4	Clough	\$11,457	\$6,200	\$0	\$3,380	Subcontract in place. POP to expire 11/30/2016
5	Prezant	\$13,600	\$7,590	\$0	\$5,776	Subcontract in place. POP to expire 11/30/2016
Total		\$37,457	\$13,790	\$0	\$9,156	

\*Subcontract Ceiling represents "available subcontract capacity" on each TAC member's respective subcontract. A subcontract modification is required when the dollar value of requested work exceeds a TAC Member's Subcontract Ceiling.

## WAD 1, WO 4 – Technical Support (1.4.1)

### 1.4.1 Technical Support

- Hours inadvertently charged to this WE for reviewing BERA report in August 2014 were transferred to WAD 4, WO 3.3 Review CPG Risk Assessment in this reporting period.

## WAD 2, WO 2 - Work Planning: Oversight & Communication

### 2.2.1 Technical Communication

- No activity.

### 2.2.2 CPG Planning Documents Review

- Hours inadvertently charged to WE 2.6.1 in August 2014 for reviewing CPG's *Draft Data Usability and Data Evaluation Plan* were transferred to this WE in this reporting period.

### 2.2.3 TSI RM 10.9 Water Main Survey

- No activity.

Work Element	Cost prior to This Period	Cost This Period	Cost to Date
2.2.2 CPG Planning document Review	\$0	\$0	\$0
2.2.3 TSI RM 10.9 Water Main Survey	\$4,732	\$0	\$4,732
2.4.1 CPG Report Review	\$757	\$0	\$757
2.6.1 Planning Document Review	\$0	\$0	\$0
2.7.2 RM 10.9 Remedial Action Oversight	\$0	\$0	\$0
Total Cost	\$5,489	\$0	\$5,489

## WAD 2, WO 3 – Field Work Sampling Oversight

#### 2.3.1 CDM Smith Work Plan Preparation (QAPP & HASP)

- No activity.

#### 2.3.2 Water Column, Chemical Data Oversight

- After reviewing the information received from the laboratory CDM Smith initiated work on resolving the anomalies with solids data reported from the CWCM split samples.

#### 2.3.3 RM 10.9 Oversight

- Work element closed. See WAD 2 WO 7 for RM 10.9 oversight work.

#### 2.3.4 LRC Supplemental Sampling Oversight

- No activity.

#### 2.3.6 Background Sampling Oversight

- Continued work on the split sampling summary report. CPG's background sampling summary report did not contain information on the tissue samples. CDM Smith will use information contained in the BERA to proceed with the evaluation of the split samples.

#### 2.3.7 LRC SSP2 Oversight

- Finalized validation of split sample data.
- Initiated preparation of the split sample summary report.

### **WAD 2, WO 4 – Report/Products: Oversight and Communications**

#### 2.4.1 CPG Report Review

- Updated report tracking table.

### **WAD 2, WO 5 – Data Manager**

#### 2.5.1 Data Manager (Data/Information Transfer)

- Provided data management support and responded to questions from EPA, Lower Passaic River team, and partner agencies.
- Finalize uploading of SSP2 split sample data and supported split sample evaluation work.
- Updated SSP2 split sample location and sampling depth information with information from CPG SSP2 dataset.
- Continued work on CWCM split sample solids updates. The data will need to be reloaded into the Passaic River database, work in process. Since the work performed was in support of the CWCM split sample oversight task, the hours (6.5) charged to this work element will be reallocated to work element 2.3.2 in the next reporting period.
- Uploaded split sampling data from RM 10.9 water quality monitoring (WQM) split samples. Since the work performed was in support of the RM 10.9 RA WQM split sample oversight task; the hours (25) charged to this work element will be reallocated to 2.7.3 in the next reporting period.

#### 2.5.2 Database and Website Management

- Ongoing webpage support/and Enterprise interface support.

- Continued to provide webpage management support updating pages and announcements at the direction of the EPA/USACE.
- Received updates to SharePoint users list from EPA and the USACE updates are in process.
- Paid Sharepoint annual fee.

## **WAD 2, WO 6 – CSO/SWO Sampling Oversight**

### **2.6.1 Planning Documents Review**

- Hours inadvertently charged to this WE in August 2014 for reviewing CPG's *Draft Data Usability and Data Evaluation Plan* were transferred to WE 2.2.2 CPG Planning Document Review in this reporting period.

### **2.6.2 CDM Work Plan Preparation**

- No activity. No cost has been incurred under this WE to date, therefore no invoice sheet for this WE.

### **2.6.3 Laboratory Analysis and Coordination**

- No activity.

### **2.6.4 Field Oversight and Collection of Split Samples**

- Continued review of Tierra's CSO/SWO data validation and data usability summary report for Phase 1 program samples.

### **2.6.5 Split Sample Comparison Report**

- No activity. No cost has been incurred under this WE to date, therefore no invoice sheet for this WE.

## **WAD 2, WO 7 – RM 10.9 Removal Action Oversight**

### **2.7.1 Report Review/Technical Support**

- CDM Smith provided technical support to EPA on various issues, including searching for and reviewing photos that show the site conditions before and after excavation.
- CDM Smith also reviewed photo logs for evidence of armor stone high spots.
- At the request of EPA/USACE, CDM Smith attended the CAG meeting on September 11, 2014 to provide technical support on activities related to the RM 10.9 RA. (Note that CDM Smith split the time to attend the meeting between this WE and WE 1.2.1.)

### **2.7.2 Remedial Action Oversight**

- On September 26, 2014 participated in meeting with EPA and USACE to discuss scheduling and goals for the armor stone relocation activity.
- Finalized the combined Lessons Learned from the RA dredging and capping oversight, the LLs were forwarded to EPA/USACE on August 28, 2014.
- Submitted technical review comments for the *CPG River Mile 10.9 Removal Action Final Construction Report* to EPA/USACE on September 24, 2014.

### **2.7.3 Sampling Analysis**

- No activity.



### **WAD 3, WO 1 - Modeling Support**

- Project Management & Support
  - Prepared monthly invoice and writeup.
- Bi-Weekly Conference Calls
  - No activity.
- Project Review Conference Calls & Mod Meetings
  - No activity.
- Transfer of Model Codes/Support
  - No activity.
- Field Oversight
  - Submitted an outstanding January 2013 invoice from SEI after it was resolved (Differences between the 2010 and 2011 multibeam surveys).
- Modeling Oversight
  - Performed analysis of CPG SWAC maps and dataset used to generate those maps.
  - Reviewed John Kern's analysis of CPG SWAC maps.
  - Prepared memo on review of CPG maps and approach submitted September 9, 2013 along with maps comparing changes in groupings, changes in interpolated concentrations, and changes in remedial footprint assuming a RAL of 500 ppt.
  - Followed-up email dated September 15, 2014 with table describing the CPG interpolation method in terms of relationships between the number of samples, areas represented by samples, and number of polygons associated with samples.
  - Attended call w/CPG to discuss mapping approach - September 10, 2014.
  - Attended call w/John Kern and CDM Smith to back brief John on September 10 call w/CPG – September 11, 2014.
  - Attended call w/CDM Smith and John Kern to discuss bed maps, cross validation, uncertainty analysis, and SWAC RAL relationships – September 18, 2014.

### **WAD 3, WO 2 - Modeling Collaboration with CPG**

(Note the activities described under WO 3.2 will be invoiced in the October 2014 reporting period.)

- Project Management and Support
  - Prepared monthly invoice and writeup.
- Weekly Conference Calls/Monthly Technical Meetings
  - No activity.
- Identify Model Differences
  - No activity.
- Data Action/Model Action Items
  - No activity.
- Communication with EPA Project Team
  - Attended bi-weekly calls September 2 and 16, 2014.
  - Attended weekly Status Call with EPA and CDM Smith on September 22, 2014.

#### **WAD 4, WO 3 – Review/Coordinate CPG Risk Assessment**

- CDM Smith prepared the alternative to the mixed fish diet presented by the CPG. This summary document was added to the comments on the BHHRA along with comments received from NJDEP. The compiled comments were submitted to EPA/USACE on September 4, 2014.
- CDM Smith provided a review of NJDEP comments on the Baseline Ecological Risk Assessment. CDM Smith provided recommendations for the BERA review to EPA/USACE via email correspondence on September 22, 2014.
- CDM Smith was asked to evaluate if the BERA review could be completed since the NJDEP had significant comments on the SLERA which was provided as an attachment to the BERA report. CDM Smith provided a summary of this via email on September 19, 2014.

#### **WAD 5, WO 1 – RI/FS Documents**

- CDM Smith reviewed and provided comment on the CPG's Response to comments and revised Feasibility Study Work Plan, LPRSA, RI/FS, Revision 3, dated August 6 2014. Comments were submitted to EPA/USACE on August 29, 2014.

#### **WAD 5, WO 2 – Data Evaluation**

- Worked with Dr. Kern to prepare and review his evaluation of uncertainty using the SSP2 results to test the predictive strength of both CPG's and his interpolation strategies.

#### **2. Anticipated Problems and Recommended Solutions –**

- None.

#### **3. Problems Resolved – N/A.**

#### **4. Upcoming Events/Activities Planned – CDM Smith will continue working on the following activities:**

- Participate in bi-weekly calls and weekly status calls.
- Review CPG and Tierra documents when received.
- Continue database management and data upload.
- Finalize split sample evaluation of SSP2 data.
- Review analytical data from CSO/SWO investigation.
- Continue to formulate data presentation plans.
- Continue to provide review and evaluation support on CPG's Draft BHHRA and BERA.
- Review of RAO/PRG technical memorandum when received.
- Prepare proposal to request funding for 2015.

#### **5. Key Staffing Changes –None.**

6. **Budget** – See attached cost spreadsheet for negotiated budget, funded amount, and expenditure details.

7. **Deliverables Submitted**

(For deliverables submitted prior to January 3, 2013, please see the April 2013 and earlier monthly reports.)

<b>Title</b>	<b>Date Submitted</b>
Submitted comments on River Mile 10.9 90 Percent Design	January 3, 2013
Submitted comments on RM 10.9 QAPP Addendum D	January 23, 2013
Submitted CDM Smith Field Change Request #13 - oversight of CPGs QAPP Addendum D Field Effort	February 13, 2013
Submitted comments on Updated Porewater SOPs RM 10.9 QAPP Addendum D	February 19, 2013
Submitted comments on Tierra's Validated Rinse Blank Results for the CSO/SWO sampling program	February 28, 2013
Submitted comments on Porewater SOP RM 10.9 QAPP Add D	March 1, 2013
Submitted comments on Draft Final RM 10.9 Design	March 22, 2013
Submitted comments on GW Seepage Measurement Field Mod	March 25, 2013
Submitted comments on CSO/SWO QAPP Revision 2	April 4, 2013
Submitted comments on RM 10.9 design draft WQMP	April 24, 2013
Submitted comments on Fall 2009 Benthic Invertebrate Community Survey and Benthic Field Data Collection, dated April 12, 2013	April 24, 2013
Submitted comments on Habitat Identification Survey Data Report, Fall 2010 Field Effort, dated April 12, 2013	April 24, 2013
Submitted comments on RM 10.9 Draft Water Quality Monitoring Plan	April 26, 2013
Submitted comments on RM 10.9 Removal Action Final Design Report	May 17, 2013
Submitted comments on RM 10.9 Draft Perimeter Air and Noise Monitoring Plan	May 23 & 28, 2013
Submitted comments on RM 10.9 Waterline Setback	May 24, 2013
Submitted comments on Tierra CSO/SWO Forensic Sample Results	May 16, 2013
Submitted comments on CPG Field Modification Form 130522-1 SSP2 Sediment Probing	May 29, 2013
Submitted comments on RM 10.9 Cap Design Review & Waterfront Development Permit Equivalent Conditions	June 3, 2013
Submitted comments on CSO-SWO LSM Method Blank Evaluation Report dated May 23, 2013	June 10, 2013
Submitted CDM Smith Field Change Request #14 – HV CWCM filtrate sample	June 12, 2013
Submitted comments on the RM 10.9 Final Design Response to Comments	June 13, 2013
Submitted comments on the RM 10.9 Final Design LTMM	June 13, 2013
Submitted comments on Pre-Dredge Bathymetry Survey Calibration & QC SOP	July 10, 2013

<b>Title</b>	<b>Date Submitted</b>
Submitted comments on Tierra's CSO/SWO QAPP Field Modifications dated June 6, 2013	July 12, 2013
Submitted comments on SV CWCM QAPP Addendum A WQM	July 15, 2013
Submitted comments on RM 10.9 Removal Action Operational Plans	July 16, 2013
Submitted comments on Response to RM 10.9 Design Comments	July 18, 2013
Submitted comments on Complete Pre-Dredge Bathymetry Survey	July 24, 2013
Submitted CDM Smith QAPP Addendum 13 WQM RM 10.9	August 9, 2013
Submitted comments on CPG Revised SSP2 Sampling Locations	August 13, 2013
Submitted comments on the bathymetry survey results	August 29, 2013
Submitted CDM Smith Field Change Request 15 Oversight of the CPG SSP2 Sampling	September 18, 2013
Submitted comments on the CPG Draft Low Resolution Coring Supplemental Sampling Program Addendum Sampling Program QAPP, September 2013	September 18, 2013
Submitted comments on RM 10.9 RA High Sub-Grade Sediment Sampling Plan, September 25, 2013	September 26, 2013
Submitted comments on CPG's RM 10.9 Post-Dredge Sediment Sampling Plan	October 4, 2013
Submitted comments on CPG Field Modification FM131009 for the SSP2 Sampling Event	October 15, 2013
Submitted comments on CPG Field Modification FM-131018 to move station 13B-0523	October 22, 2013
Submitted comments on CPG RM 10.9 Capping Plan	October 22, 2013
Submitted comments on CPG Draft 2012 Benthic Invertebrate Community Reference Data Report	October 24, 2013
Submitted comments on CPG Field Modification FM-13103-1 for the SSP2 Sampling Event	November 4, 2013
Submitted comments on CPG RM 10.9 Removal Action Water Quality Monitoring: Proposed Monitoring During Capping Operations	November 6, 2013
Submitted comments on CPG RM 10.9 Removal Action Cap Active Layer Monitoring: Approach for Carbon Analysis	November 20, 2013
Submitted comments on the CPG Draft 2012 Sediment Toxicity Reference Data Report, dated October 22, 2013	December 2, 2013
Submitted comments on CPG Periodic Bathymetry Survey, Fall 2011 Post Hurricane Irene Survey Report, dated March 2013, and the 2012 Periodic Bathymetry and Single Beam Survey Report, dated March 2013	December 27, 2013
Submitted comments on CPG Draft Revised Risk Analysis and Risk Characterization Plan, dated October 29, 2013.	January 16, 2014
Submitted comments on CPG Draft 2012 Chemistry Background Data Report, dated October 30, 2013.	January 24, 2014
Submitted comments on CPG Preliminary Draft Interim Conceptual Site Model, submitted on December 20, 2013.	January 24, 2014

<b>Title</b>	<b>Date Submitted</b>
Submitted comments on Revised Capping Plan for Geotextile, Armor Stone & Habitat Layer Installation, Revision 10, dated January 31, 2014	February 4, 2014
Submitted Meeting Minutes for February 6, 2014 RI/FS Meeting	February 11, 2014
Submitted comments on CPG LRC Supplemental Sampling Program Characterization Summary	March 3, 2014
Submitted comments on CPG Draft Dissolved Oxygen Monitoring Program Data Report, dated Sept. 3, 2014	March 21, 2014
Submitted comments on Tierra's Passaic River RM 10.9 Pipeline Survey: Statement of Work	March 21, 2014
Submitted comments on CPG Draft SV CWCM Sampling Program Characterization Summary, dated Feb. 2014	April 1, 2014
Submitted 2011-2013 Chemical Water Column Monitoring, Small Volume Split Sample Data Comparison	April 14, 2014
Submitted Draft Burial and Burrowing Depth of Infaunal Organism from the Passaic River, New Jersey	April 22, 2014
Submitted comments on CPG Draft HV CWCM Sampling Program Characterization Summary, dated Feb. 2014	May 15, 2014
Submitted comments on Tierra RM 10.9 Piping Geophysical Surveys: Parametric Echosounder and Ground Penetrating Radar SOW, QAPP and HASP	May 20, 2014
Submitted comments on Passaic River RM 10.9 Final Armor Layer Survey Technical Memorandum	May 20, 2014
Submitted Final Burial and Burrowing Depth of Infaunal Organism from the Passaic River, New Jersey, Technical Memorandum	June 5, 2014
Submitted 2013 High Volume Chemical Water Column Split Sample Data Comparison for the Lower Passaic River Study Area	June 17, 2014
Submitted Compiled CSM comments	July 3, 2014
Submitted BHHRA review comments	July 18, 2014
Submitted comments on PWCM report	July 24, 2014
Submitted revised BHHRA review comments	July 25, 2014
Submitted compiled comments (incorporating NJDEP comments) on 2012 Background/Reference Sediment Chemistry Data Report	July 30, 2014
Submitted revised CSM comments (incorporating HDR comments)	August 1, 2014
Submitted additional BHHRA review comments	August 1, 2014
Submitted BERA review comments	August 8, 2014
Submitted RM 10.9 RA oversight summary report	August 15, 2014
Submitted comments on final Data Usability and Data Evaluation Plan for Risk Assessment (reviewed NJDEP comments and emailed evaluation)	August 19, 2014
Submitted comments on Appendix G of the BHHRA	August 21, 2014
Submitted Review of CPG's Response to Comments and Additional Comments on the Feasibility Study Work Plan, LPRSA RI/FS, Revision 3	August 29, 2014
Submitted Compiled Comments on the CPG Draft Baseline Human Health Risk Assessment Report	September 4, 2014

Title	Date Submitted
Submitted comments on the CPG River Mile 10.9 Removal Action Final Construction Report	September 24, 2014
Submitted lessons learned during RM 10.9 dredging and capping activities	September 25, 2014

## PROGRESS REPORT

Site Name: Lower Passaic River Restoration Project and & Superfund Site  
Project: Task Order 6424.005 CPG Oversight  
Prepared by: Frank Tsang  
Representing: CDM Federal Programs Corporation (CDM Smith)  
Date: November 11, 2014 (revised March 2, 2015)  
Reporting Period: September 28, 2014 to October 25, 2014

The following structures reflect the WBS from TO 6424.005.

1. **Progress Made this Reporting Period** – CDM Smith performed the following activities during this period:

### **WAD 1, Work Order (WO) 1 – Project Management and Administration**

#### 1.1.1 Project Management

- CDM Smith performed project management including staffing, financial monitoring, invoicing, and participated in conference calls.
- In responding to a request for proposal, CDM Smith submitted a cost proposal on October 17, 2014.
- CDM Smith submitted WVN 10 to transfer funds among work elements on October 21, 2014.

#### 1.1.2 Project Support Documentation & Administration

- CDM Smith prepared and submitted the September 2014 monthly progress report.

#### 1.1.3 Subcontract Administration

- CDM Smith performed subcontract maintenance and processed subcontractor invoices (HDR Engineering, Inc.).

#### 1.1.4 Project Communication

- On September 30 and October 14, 2014, CDM Smith updated agendas and participated in bi-weekly conference calls.
- On October 2, and 6, 2014, CDM Smith prepared for and participated in weekly project status calls with EPA and USACE.
- CDM Smith, EPA and USACE met on October 15, 2014 at the EPA Region 2 office to discuss CPG oversight updates and planning through 2015.

### **WAD 1, WO 2 – Community Relations/Public Website**

#### 1.2.1 Public Meeting Support

- No activity.

### **WAD 1, WO 3 – Senior Technical Advisors**

#### 1.3.1 Senior Technical Advisor

- No activity.
- Funding for this WO is \$56,000 thru WVN 7/ATP 13 approved on March 27, 2014.

Item	TAC Member	TAC Member Subcontract Ceiling*	Authorized Funding	Payment this Period	Payment to date	Remarks
1	Ambrose	\$6,400	\$0	\$0	\$0	Subcontract in place. POP to expire 11/30/2016
2	Flood	\$6,000	\$0	\$0	\$0	Subcontract in place. POP to expire 11/30/2016
3	Di Toro	\$0	\$0	\$0	\$0	EPA/USACE placed subcontract on hold
4	Clough	\$11,457	\$6,200	\$0	\$3,380	Subcontract in place. POP to expire 11/30/2016
5	Prezant	\$13,600	\$7,590	\$0	\$5,776	Subcontract in place. POP to expire 11/30/2016
Total		\$37,457	\$13,790	\$0	\$9,156	

\*Subcontract Ceiling represents "available subcontract capacity" on each TAC member's respective subcontract. A subcontract modification is required when the dollar value of requested work exceeds a TAC Member's Subcontract Ceiling.

## **WAD 1, WO 4 – Technical Support (1.4.1)**

### 1.4.1 Technical Support

- No activity.

## **WAD 2, WO 2 - Work Planning: Oversight & Communication**

### 2.2.1 Technical Communication

- No activity.

### 2.2.2 CPG Planning Documents Review

- No activity.

### 2.2.3 TSI RM 10.9 Water Main Survey

- Reviewed and provided comment on the Tierra Solutions, Inc. *Quality Assurance Project Plan for River Mile 10.9 Pipeline Probing Survey, Revision 0*, LPRSA dated September 2014. Comments were forwarded to EPA/USACE on October 22, 2014.

Work Element	Cost prior to This Period	Cost This Period	Cost to Date
2.2.2 CPG Planning document Review	\$0	\$0	\$0
2.2.3 TSI RM 10.9 Water Main Survey	\$4,732	\$755	\$5,487
2.4.1 CPG Report Review	\$757	\$0	\$757
2.6.1 Planning Document Review	\$0	\$0	\$0
2.7.2 RM 10.9 Remedial Action Oversight	\$0	\$0	\$0
Total Cost	\$5,489	\$755	\$6,244

## **WAD 2, WO 3 – Field Work Sampling Oversight**

### 2.3.1 CDM Smith Work Plan Preparation (QAPP & HASP)

- No activity.



#### 2.3.2 Water Column, Chemical Data Oversight

- Continued work on resolving anomalies with transposed solids data (SS for DS) data reported from the CWCM split samples.
- Hours (6.5) charged to work element 2.5.1 in September 2014 were allocated to this work element during this reporting period. The work performed was in support of the CWCM split sample result updates.
- Evaluated the application of the statistical approaches used to evaluate the split samples. The Wilcoxon Signed Rank (WSR) and Paired Prentice-Wilcoxon (PPW) Tests in cases when there are non-detect values and potential data outliers. An excel table was created to evaluate the impact of non-detect and outlier data on the WSR and PPW split sample statistics. The table provides a means of identifying when an outlier skews the PPW statistic.

#### 2.3.3 RM 10.9 Oversight

- Work element closed. See WAD2 WO7 for RM 10.9 oversight work.

#### 2.3.4 LRC Supplemental Sampling Oversight

- No activity.

#### 2.3.6 Background Sampling Oversight

- Finalized split sampling summary report. The report was forwarded to EPA/USACE on October 13, 2014.
- 2 hours were charged to this task for evaluating the statistic approach for CWCM split sample analysis. These charges will be transferred to Task 2.3.2 Water Column, Chemical Data Oversight in the December 2014 reporting period.

#### 2.3.7 LRC SSP2 Oversight

- Continued preparation of the split sample summary report.

### **WAD 2, WO 4 – Report/Products: Oversight and Communications**

#### 2.4.1 CPG Report Review

- Received the CPG's *Low Resolution Coring Supplemental Sampling Program Addendum Second Supplemental Sampling Program Characterization Summary, LPRSA RI/FS*, dated October 2014 and Initiated report review.
- Performed routine update of report tracking table. No submittal was made.

### **WAD 2, WO 5 – Data Manager**

#### 2.5.1 Data Manager (Data/Information Transfer)

- Provided data management support and responded to questions from EPA, Lower Passaic River team, and partner agencies.
- Updated SSP2 split sample data and supported split sample evaluation work.
- Reallocated hours (6.5) charged from this work element to work element 2.3.2 during this reporting period.
- Reallocated the hours (25) charged to this work element in September 2014 to work element 2.7.3 during this reporting period.

#### 2.5.2 Database and Website Management

- Ongoing webpage support/and Enterprise interface support.
- Continued to provide webpage management support updating pages and announcements at the direction of the EPA/USACE.
- Updated secure server SharePoint users list based on input received from EPA and the USACE.
- Paid invoices for Enterprise interface usage (EarthSoft) and 2-year renewal of website domain names (via charges on expense report).

### **WAD 2, WO 6 – CSO/SWO Sampling Oversight**

#### 2.6.1 Planning Documents Review

- No activity.

#### 2.6.2 CDM Work Plan Preparation

- No activity. No cost has been incurred under this WE to date, therefore no invoice sheet for this WE.

#### 2.6.3 Laboratory Analysis and Coordination

- No activity.

#### 2.6.4 Field Oversight and Collection of Split Samples

- Received and initiated review of Tierra's *Combined Sewer Overflow/Stormwater Outfall Investigation Phase I Evaluation/Recommendation Report–Revision 0*, dated October 2014.
- Received additional CSO/SWO data validation reports for Phase 1 program samples.

#### 2.6.5 Split Sample Comparison Report

- No activity. No cost has been incurred under this WE to date, therefore no invoice sheet for this WE.

### **WAD 2, WO 7 – RM 10.9 Removal Action Oversight**

#### 2.7.1 Report Review/Technical Support

- No activity.

#### 2.7.2 Remedial Action Oversight

- Provided field oversight of the armor stone relocation activity on September 29 through October 1 and October 6, 2014.
- On October 8, 2014, performed low tide photo survey of the post armor stone relocation. Began preparation of post armor stone relocation photo log.

#### 2.7.3 Sampling Analysis

- Hours (25) charged to work element 2.5.1 in September 2014 were reallocated to this work element during this reporting period. The hours were in support of data activities for water quality measurement and post remediation split samples.
- Initiated review of water quality monitoring split sample solids data anomalies.

### **WAD 3, WO 1 - Modeling Support**

- Project Management & Support
  - Prepared monthly invoice and writeup.
- Bi-Weekly Conference Calls
  - No activity.
- Project Review Conference Calls & Mod Meetings
  - No activity.
- Transfer of Model Codes/Support
  - No activity.
- Field Oversight
  - Reviewed CPG FS Work Plan sections.
- Modeling Oversight
  - Performed analysis of the 2008 LRC finely segmented cores to investigate the relationship between the top 2 cm and the next few layers down to 30 cm (Cores sliced at 2, 5, 10, 30, 60 cm). Created plots of vertical concentration profiles for the eight finely segmented 2008 LRC cores and plots comparing the top slice (2 cm) to the top 40 cm average vertical concentration profiles for the eight finely segmented 2008 LRC cores.
  - Compared CPG SWAC prediction errors to Thiessen polygons without groups, site wide average, and averages per group. Computed drop one cross validation error statistics for noted interpolation methods. Also compared the errors between different approaches to determine if any were more or less likely to estimate concentrations at unmeasured locations.
  - Reviewed CPG Sediment Transport memorandum and commented on technical content. HDR also reviewed the previous 2013 memorandum and comments to verify if previous comments were addressed. HDR worked on generating figures showing the CPG calibration results using the FFS plotting templates.
  - HDR reviewed John Kern's presentation materials, prepared for the call, attended September 29, 2014 call on John Kerns mapping analysis, and followed up on the analysis presented.

### **WAD 3, WO 2 - Modeling Collaboration with CPG**

- Project Management and Support
  - Prepared monthly invoice and writeup.
- Weekly Conference Calls/Monthly Technical Meetings
  - No activity.
- Identify Model Differences
  - No activity.
- Data Action and Model Action Items
  - Discussed with Rooni Matthew from Moffat and Nichol on ACDP vs TSS analysis.
- Communication with EPA Project Team
  - Attended bi-weekly calls September 28, October 14, and 28, 2014.

- Attended weekly status call with CDM Smith and EPA on October 6 and 27, 2014.
- Attended calls with CDM Smith and EPA on October 29 and 30, 2014 to discuss technical issues with CPG approach.

#### **WAD 4, WO 3 – Review/Coordinate CPG Risk Assessment**

- EPA/USACE requested that CDM Smith reviewed and prepared comments on *Appendix G of the CPG Draft Baseline Human Health Risk Assessment Report*. Comments were submitted to EPA/USACE on October 16, 2014.

#### **WAD 5, WO 1 – RI/FS Documents**

- Provided clarifications and additional information to EPA regarding CDM Smith's comments on the revised Feasibility Study Work Plan.
- CDM Smith reviewed comments provided by HDR on the CPG's Response to comments and revised Feasibility Study Work Plan, LPRSA, RI/FS, Revision 3, dated August 6 2014. These additional comments were forwarded to EPA/USACE on October 28, 2014.

#### **WAD 5, WO 2 – Data Evaluation**

- Dr. Kern presented his evaluation of uncertainty using the SSP2 results to project staff, USACE and EPA on September 29, 2014.

#### **2. Anticipated Problems and Recommended Solutions**

- None.

#### **3. Problems Resolved – N/A.**

#### **4. Upcoming Events/Activities Planned – CDM Smith will continue working on the following activities:**

- Participate in bi-weekly calls and weekly status calls.
- Review CPG and Tierra documents when received.
- Continue database management and data upload.
- Finalize split sample evaluation of SSP2 data.
- Review analytical data and phase 1 evaluation/recommendations report from CSO/SWO investigation.
- Continue to formulate data presentation plans and evaluation of uncertainty.
- Review of RAO/PRG technical memorandum when received.
- Meet with EPA and USACE regarding requested funding for 2015.

#### **5. Key Staffing Changes –None.**

#### **6. Budget – See attached cost spreadsheet for negotiated budget, funded amount, and expenditure details.**

#### **7. Deliverables Submitted**

(For deliverables submitted prior to January 3, 2013, please see the April 2013 and earlier monthly reports.)

<b>Title</b>	<b>Date Submitted</b>
Submitted comments on River Mile 10.9 90 Percent Design	January 3, 2013
Submitted comments on RM 10.9 QAPP Addendum D	January 23, 2013
Submitted CDM Smith Field Change Request #13 - oversight of CPGs QAPP Addendum D Field Effort	February 13, 2013
Submitted comments on Updated Porewater SOPs RM 10.9 QAPP Addendum D	February 19, 2013
Submitted comments on Tierra's Validated Rinse Blank Results for the CSO/SWO sampling program	February 28, 2013
Submitted comments on Porewater SOP RM 10.9 QAPP Add D	March 1, 2013
Submitted comments on Draft Final RM 10.9 Design	March 22, 2013
Submitted comments on GW Seepage Measurement Field Mod	March 25, 2013
Submitted comments on CSO/SWO QAPP Revision 2	April 4, 2013
Submitted comments on RM 10.9 design draft WQMP	April 24, 2013
Submitted comments on Fall 2009 Benthic Invertebrate Community Survey and Benthic Field Data Collection, dated April 12, 2013	April 24, 2013
Submitted comments on Habitat Identification Survey Data Report, Fall 2010 Field Effort, dated April 12, 2013	April 24, 2013
Submitted comments on RM 10.9 Draft Water Quality Monitoring Plan	April 26, 2013
Submitted comments on RM 10.9 Removal Action Final Design Report	May 17, 2013
Submitted comments on RM 10.9 Draft Perimeter Air and Noise Monitoring Plan	May 23 & 28, 2013
Submitted comments on RM 10.9 Waterline Setback	May 24, 2013
Submitted comments on Tierra CSO/SWO Forensic Sample Results	May 16, 2013
Submitted comments on CPG Field Modification Form 130522-1 SSP2 Sediment Probing	May 29, 2013
Submitted comments on RM 10.9 Cap Design Review & Waterfront Development Permit Equivalent Conditions	June 3, 2013
Submitted comments on CSO-SWO LSM Method Blank Evaluation Report dated May 23, 2013	June 10, 2013
Submitted CDM Smith Field Change Request #14 – HV CWCM filtrate sample	June 12, 2013
Submitted comments on the RM 10.9 Final Design Response to Comments	June 13, 2013
Submitted comments on the RM 10.9 Final Design LTMM	June 13, 2013
Submitted comments on Pre-Dredge Bathymetry Survey Calibration & QC SOP	July 10, 2013
Submitted comments on Tierra's CSO/SWO QAPP Field Modifications dated June 6, 2013	July 12, 2013
Submitted comments on SV CWCM QAPP Addendum A WQM	July 15, 2013
Submitted comments on RM 10.9 Removal Action Operational Plans	July 16, 2013
Submitted comments on Response to RM 10.9 Design Comments	July 18, 2013
Submitted comments on Complete Pre-Dredge Bathymetry Survey	July 24, 2013

<b>Title</b>	<b>Date Submitted</b>
Submitted CDM Smith QAPP Addendum 13 WQM RM 10.9	August 9, 2013
Submitted comments on CPG Revised SSP2 Sampling Locations	August 13, 2013
Submitted comments on the bathymetry survey results	August 29, 2013
Submitted CDM Smith Field Change Request 15 Oversight of the CPG SSP2 Sampling	September 18, 2013
Submitted comments on the CPG Draft Low Resolution Coring Supplemental Sampling Program Addendum Sampling Program QAPP, September 2013	September 18, 2013
Submitted comments on RM 10.9 RA High Sub-Grade Sediment Sampling Plan, September 25, 2013	September 26, 2013
Submitted comments on CPG's RM 10.9 Post-Dredge Sediment Sampling Plan	October 4, 2013
Submitted comments on CPG Field Modification FM131009 for the SSP2 Sampling Event	October 15, 2013
Submitted comments on CPG Field Modification FM-131018 to move station 13B-0523	October 22, 2013
Submitted comments on CPG RM 10.9 Capping Plan	October 22, 2013
Submitted comments on CPG Draft 2012 Benthic Invertebrate Community Reference Data Report	October 24, 2013
Submitted comments on CPG Field Modification FM-13103-1 for the SSP2 Sampling Event	November 4, 2013
Submitted comments on CPG RM 10.9 Removal Action Water Quality Monitoring: Proposed Monitoring During Capping Operations	November 6, 2013
Submitted comments on CPG RM 10.9 Removal Action Cap Active Layer Monitoring: Approach for Carbon Analysis	November 20, 2013
Submitted comments on the CPG Draft 2012 Sediment Toxicity Reference Data Report, dated October 22, 2013	December 2, 2013
Submitted comments on CPG Periodic Bathymetry Survey, Fall 2011 Post Hurricane Irene Survey Report, dated March 2013, and the 2012 Periodic Bathymetry and Single Beam Survey Report, dated March 2013	December 27, 2013
Submitted comments on CPG Draft Revised Risk Analysis and Risk Characterization Plan, dated October 29, 2013.	January 16, 2014
Submitted comments on CPG Draft 2012 Chemistry Background Data Report, dated October 30, 2013.	January 24, 2014
Submitted comments on CPG Preliminary Draft Interim Conceptual Site Model, submitted on December 20, 2013.	January 24, 2014
Submitted comments on Revised Capping Plan for Geotextile, Armor Stone & Habitat Layer Installation, Revision 10, dated January 31, 2014	February 4, 2014
Submitted Meeting Minutes for February 6, 2014 RI/FS Meeting	February 11, 2014
Submitted comments on CPG LRC Supplemental Sampling Program Characterization Summary	March 3, 2014
Submitted comments on CPG Draft Dissolved Oxygen Monitoring Program Data Report, dated Sept. 3, 2014	March 21, 2014

<b>Title</b>	<b>Date Submitted</b>
Submitted comments on Tierra's Passaic River RM 10.9 Pipeline Survey: Statement of Work	March 21, 2014
Submitted comments on CPG Draft SV CWCM Sampling Program Characterization Summary, dated Feb. 2014	April 1, 2014
Submitted 2011-2013 Chemical Water Column Monitoring, Small Volume Split Sample Data Comparison	April 14, 2014
Submitted Draft Burial and Burrowing Depth of Infaunal Organism from the Passaic River, New Jersey	April 22, 2014
Submitted comments on CPG Draft HV CWCM Sampling Program Characterization Summary, dated Feb. 2014	May 15, 2014
Submitted comments on Tierra RM 10.9 Piping Geophysical Surveys: Parametric Echosounder and Ground Penetrating Radar SOW, QAPP and HASP	May 20, 2014
Submitted comments on Passaic River RM 10.9 Final Armor Layer Survey Technical Memorandum	May 20, 2014
Submitted Final Burial and Burrowing Depth of Infaunal Organism from the Passaic River, New Jersey, Technical Memorandum	June 5, 2014
Submitted 2013 High Volume Chemical Water Column Split Sample Data Comparison for the Lower Passaic River Study Area	June 17, 2014
Submitted compiled CSM comments	July 3, 2014
Submitted BHHRA review comments	July 18, 2014
Submitted comments on PWCM report	July 24, 2014
Submitted revised BHHRA review comments	July 25, 2014
Submitted compiled comments (incorporating NJDEP comments) on 2012 Background/Reference Sediment Chemistry Data Report	July 30, 2014
Submitted revised CSM comments (incorporating HDR comments)	August 1, 2014
Submitted additional BHHRA review comments	August 1, 2014
Submitted BERA review comments	August 8, 2014
Submitted RM 10.9 RA oversight summary report	August 15, 2014
Submitted comments on final Data Usability and Data Evaluation Plan for Risk Assessment (reviewed NJDEP comments and emailed evaluation)	August 19, 2014
Submitted comments on Appendix G of the BHHRA	August 21, 2014
Submitted Review of CPG's Response to Comments and Additional Comments on the Feasibility Study Work Plan, LPRSA RI/FS, Revision 3	August 29, 2014
Submitted Compiled Comments on the CPG Draft Baseline Human Health Risk Assessment Report	September 4, 2014
Submitted comments on the CPG River Mile 10.9 Removal Action Final Construction Report	September 24, 2014
Submitted lessons learned during RM 10.9 dredging and capping activities	September 25, 2014
Submitted 2012 Background Tissue Split Sampling Data Comparison for the Lower Passaic River Study Area	October 13, 2014
Submitted Additional Comments on Appendix G of the CPG Draft Baseline Human Health Risk Assessment Report	October 16, 2014

Title	Date Submitted
Submitted Review Comments on Tierra Solutions, Inc. Quality Assurance Project Plan for River Mile 10.9 Pipeline Probing Survey, Revision 0	October 22, 2014